1. Write a Python Program to Display Fibonacci Sequence Using Recursion?
2. Write a Python Program to Find Factorial of Number Using Recursion?
3. Write a Python Program to calculate your Body Mass Index?
4. Write a Python Program to calculate the natural logarithm of any number?
5. Write a Python Program for cube sum of first n natural numbers?

Answers:

Sure! Here are the Python programs for the tasks you mentioned:

1. Python Program to Display Fibonacci Sequence Using Recursion:

```python

def fibonacci(n):

if n <= 1:

return n

else:

return fibonacci(n-1) + fibonacci(n-2)

nterms = int(input("Enter the number of terms: "))

if nterms <= 0:

print("Please enter a positive integer")

else:

print("Fibonacci sequence:")

for i in range(nterms):

print(fibonacci(i))

```

2. Python Program to Find Factorial of a Number Using Recursion:

```python

def factorial(n):

if n == 0:

return 1

else:

return n \* factorial(n - 1)

num = int(input("Enter a number: "))

if num < 0:

print("Factorial is not defined for negative numbers")

else:

print("Factorial of", num, "is", factorial(num))

```

3. Python Program to Calculate Your Body Mass Index:

```python

def calculate\_bmi(weight, height):

bmi = weight / (height \*\* 2)

return bmi

weight = float(input("Enter your weight in kilograms: "))

height = float(input("Enter your height in meters: "))

bmi = calculate\_bmi(weight, height)

print("Your BMI is:", round(bmi, 2))

```

4. Python Program to Calculate the Natural Logarithm of Any Number:

```python

import math

num = float(input("Enter a number: "))

if num <= 0:

print("Please enter a positive number")

else:

logarithm = math.log(num)

print("Natural logarithm of", num, "is", round(logarithm, 2))

```

5. Python Program for Cube Sum of First n Natural Numbers:

```python

def cube\_sum(n):

sum = 0

for i in range(1, n+1):

sum += i \*\* 3

return sum

num = int(input("Enter a number: "))

if num < 0:

print("Please enter a positive number")

else:

result = cube\_sum(num)

print("Cube sum of first", num, "natural numbers is", result)

```

You can run these programs and interact with them by providing the necessary inputs.